



RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/267,963B
Source: 1600
Date Processed by STIC: 3/27/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

APR 01 2003

TECH CENTER 45002300

Does Not Comply
Corrected Diskette Needed

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/267,963B

DATE: 03/27/2003

TIME: 10:28:32

Errors begin on
p. 2Input Set : A:\lud 5539.1 sequence listing March 2001.ascii.txt
Output Set: N:\CRF4\03272003\I267963B.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:
5 (i) APPLICANT: Kohei MIYAZONO; Takeshe IMAMURA; Peter DEN DIJKE
7 (ii) TITLE OF INVENTION: ISOLATED ALK-1 PROTEIN, NUCLEIC ACIDS ENCODING
8 IT, AND USES THEREOF
10 (iii) NUMBER OF SEQUENCES: 46
12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: Fulbright & Jaworski L.L.P.
14 (B) STREET: 666 Fifth Avenue
15 (C) CITY: New York City
16 (D) STATE: New York
17 (E) COUNTRY: USA
18 (F) ZIP: 10103
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Diskette, 3.25 inch, 1.44mb
22 (B) COMPUTER: IBM PS/2
23 (C) OPERATING SYSTEM: PC-DOS
24 (D) SOFTWARE: Wordperfect
26 (vi) CURRENT APPLICATION DATA:
C--> 27 (A) APPLICATION NUMBER: US/09/267,963B
C--> 28 (B) FILING DATE: 08-Mar-2001
29 (C) CLASSIFICATION: 435
63 (vii) PRIOR APPLICATION DATA:
32 (A) APPLICATION NUMBER: PCT/GB93/02367
33 (B) FILING DATE: November 17, 1993
36 (A) APPLICATION NUMBER: GB 9224057.1
37 (B) FILING DATE: November 17, 1992
40 (A) APPLICATION NUMBER: GB 9304677.9
41 (B) FILING DATE: March 8, 1993
44 (A) APPLICATION NUMBER: GB 9304680.3
45 (B) FILING DATE: March 8, 1993
48 (A) APPLICATION NUMBER: 9311047.6
49 (B) FILING DATE: May 28, 1993
52 (A) APPLICATION NUMBER: 9313763.6
53 (B) FILING DATE: July 2, 1993
56 (A) APPLICATION NUMBER: 9136099.2
57 (B) FILING DATE: August 3, 1993
60 (A) APPLICATION NUMBER: 321344.5
61 (B) FILING DATE: October 15, 1993
64 (A) APPLICATION NUMBER: 09/039,177
65 (B) FILING DATE: March 13, 1998
67 (viii) ATTORNEY/AGENT INFORMATION:
68 (A) NAME: Mary Anne Schofield

RAW SEQUENCE LISTING

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TIME: 10:28:32

Input Set : A:\lud 5539.1 sequence listing March 2001.ascii.txt

Output Set: N:\CRF4\03272003\I267963B.raw

69 (B) REGISTRATION NUMBER: 36,669
 70 (C) REFERENCE/DOCKET NUMBER: LUD 5539.1 CIP - JEL/MAS
 72 (ix) TELECOMMUNICATION INFORMATION:
 73 (A) TELEPHONE: (212) 318-3000
 74 (B) TELEFAX: (212) 318-3400

ERRORED SEQUENCES

2665 (2) INFORMATION FOR SEQ ID NO: 32:
 2666 (i) SEQUENCE CHARACTERISTICS:
 2667 (A) LENGTH: 175 amino acids
 2668 (B) TYPE: amino acid
 2669 (D) TOPOLOGY: linear
 2671 (ii) MOLECULE TYPE: peptide
 2673 (vi) ORIGINAL SOURCE:
 2674 (A) ORGANISM: Mouse
 2676 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:
 2678 Leu Leu Glu Val Lys Ala Arg Gly Arg Phe Gly Cys Val Trp Lys Ala
 2679 5 10 15
 2680 Gln Leu Leu Asn Glu Tyr Val Ala Val Lys Ile Phe Pro Ile Gln Asp
 2681 20 25 30
 2682 Lys Gln Ser Trp Gln Asn Glu Tyr Glu Val Tyr Ser Leu Pro Gly Met
 2683 35 40 45
 2684 Lys His Glu Asn Ile Leu Gln Phe Ile Gly Ala Glu Lys Arg Gly Thr
 2685 50 55 60
 2686 Ser Val Asp Val Asp Leu Trp Leu Ile Thr Ala Phe His Glu Lys Gly
 2687 65 70 75 80
 2688 Ser Leu Ser Asp Phe Leu Lys Ala Asn Val Val Ser Trp Asn Glu Leu
 2689 85 90 95
 2690 Cys His Ile Ala Glu Thr Met Ala Arg Gly Leu Ala Tyr Leu His Glu
 2691 100 105 110
 2692 Asp Ile Pro Gly Leu Lys Asp Gly His Lys Pro Ala Ile Ser His Arg
 2693 115 120 125
 2694 Asp Ile Lys Ser Lys Asn Val Leu Leu Lys Asn Asn Leu Thr Ala Cys
 2695 130 135 140
 2696 Ile Ala Asp Phe Gly Leu Ala Leu Lys Phe Glu Ala Gly Lys Ser Ala
 2697 145 150 155 160
 2698 Gly Asp Thr His Gly Gln Val Gly Thr Arg Arg Tyr Met Ala Pro

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors:

Misaligned amino
 numbering throughout.

See error summary
 sheet item 3

E--> 2699

165

170

2821 (2) INFORMATION FOR SEQ ID NO: 35:
 2822 (i) SEQUENCE CHARACTERISTICS:
 2823 (A) LENGTH: 536 amino acids
 2824 (B) TYPE: amino acid
 2825 (D) TOPOLOGY: linear
 2827 (ii) MOLECULE TYPE: peptide
 2829 (vi) ORIGINAL SOURCE:
 2830 (A) ORGANISM: MOUSE
 2832 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

RAW SEQUENCE LISTING

DATE: 03/27/2003

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Input Set : A:\lud 5539.1 sequence listing March 2001.ascii.txt

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2834	Met	Thr	Ala	Pro	Trp	Ala	Ala	Leu	Ala	Leu	Leu	Trp	Gly	Ser	Leu	Cys
2835				5						10					15	
2836	Ala	Gly	Ser	Gly	Arg	Gly	Glu	Ala	Glu	Thr	Arg	Glu	Cys	Ile	Tyr	Tyr
2837				20					25					30		
2838	Asn	Ala	Asn	Trp	Glu	Leu	Glu	Arg	Thr	Asn	Gln	Ser	Gly	Leu	Glu	Arg
2839			35					40					45			
2840	Cys	Glu	Gly	Glu	Gln	Asp	Lys	Arg	Leu	His	Cys	Tyr	Ala	Ser	Trp	Arg
2841		50					55					60				
2842	Asn	Ser	Ser	Gly	Thr	Ile	Glu	Leu	Val	Lys	Lys	Gly	Cys	Trp	Leu	Asp
2843	65					70					75				80	
2844	Asp	Phe	Asn	Cys	Tyr	Asp	Arg	Gln	Glu	Cys	Val	Ala	Thr	Glu	Glu	Asn
2845				85						90				95		
2846	Pro	Gln	Val	Tyr	Phe	Cys	Cys	Cys	Glu	Gly	Asn	Phe	Cys	Asn	Glu	Arg
2847				100					105					110		
2848	Phe	Thr	His	Leu	Pro	Glu	Pro	Gly	Gly	Pro	Glu	Val	Thr	Tyr	Glu	Pro
2849			115					120					125			
2850	Pro	Pro	Thr	Ala	Pro	Thr	Leu	Leu	Thr	Val	Leu	Ala	Tyr	Ser	Leu	Leu
2851		130					135					140				
2852	Pro	Ile	Gly	Gly	Leu	Ser	Leu	Ile	Val	Leu	Leu	Ala	Phe	Trp	Met	Tyr
2853	145					150					155				160	
2854	Arg	His	Arg	Lys	Pro	Pro	Tyr	Gly	His	Val	Asp	Ile	His	Glu	Val	Arg
2855				165						170				175		
2856	Gln	Cys	Gln	Arg	Trp	Ala	Gly	Arg	Arg	Asp	Gly	Cys	Ala	Asp	Ser	Phe
2857				180				185						190		
2858	Lys	Pro	Leu	Pro	Phe	Gln	Asp	Pro	Gly	Pro	Pro	Pro	Pro	Ser	Pro	Leu
2859		195					200						205			
2860	Val	Gly	Leu	Lys	Pro	Leu	Gln	Leu	Leu	Glu	Ile	Lys	Ala	Arg	Gly	Arg
2861		210					215					220				
2862	Phe	Gly	Cys	Val	Trp	Lys	Ala	Gln	Leu	Met	Asn	Asp	Phe	Val	Ala	Val
2863	225					230					235				240	
2864	Lys	Ile	Phe	Pro	Leu	Gln	Asp	Lys	Gln	Ser	Trp	Gln	Ser	Glu	Arg	Glu
2865				245						250				255		
2866	Ile	Phe	Ser	Thr	Pro	Gly	Met	Lys	His	Glu	Asn	Leu	Leu	Gln	Phe	Ile
2867			260					265						270		
2868	Ala	Ala	Glu	Lys	Arg	Gly	Ser	Asn	Leu	Glu	Val	Glu	Leu	Trp	Leu	Ile
2869		275					280						285			
2870	Thr	Ala	Phe	His	Asp	Lys	Gly	Ser	Leu	Thr	Asp	Tyr	Leu	Lys	Gly	Asn
2871		290				295						300				
2872	Ile	Ile	Thr	Trp	Asn	Glu	Leu	Cys	His	Val	Ala	Glu	Thr	Met	Ser	Arg
2873	305				310						315				320	
2874	Gly	Leu	Ser	Tyr	Leu	His	Glu	Asp	Val	Pro	Trp	Cys	Arg	Gly	Glu	Gly
2875				325						330				335		
2876	His	Lys	Pro	Ser	Ile	Ala	His	Arg	Asp	Phe	Lys	Ser	Lys	Asn	Val	Leu
2877			340					345						350		
2878	Leu	Lys	Ser	Asp	Leu	Thr	Ala	Val	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Val
2879		355					360					365				
2880	Arg	Phe	Glu	Pro	Gly	Lys	Pro	Pro	Gly	Asp	Thr	His	Gly	Gln	Val	Gly
2881		370					375					380				
2882	Thr	Arg	Arg	Tyr	Met	Ala	Pro	Glu	Val	Leu	Glu	Gly	Ala	Ile	Asn	Phe

RAW SEQUENCE LISTING

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Input Set : A:\lud 5539.1 sequence listing March 2001.ascii.txt

Output Set: N:\CRF4\03272003\I267963B.raw

```

2883 385          390          395          400
2884 Gln Arg Asp Ala Phe Leu Arg Ile Asp Met Tyr Ala Met Gly Leu Val
2885          405          410          415
2886 Leu Trp Glu Leu Val Ser Arg Cys Lys Ala Ala Asp Gly Pro Val Asp
2887          420          425          430
2888 Glu Tyr Met Leu Pro Phe Glu Glu Glu Ile Gly Gln His Pro Ser Leu
2889          435          440          445
2890 Glu Glu Leu Gln Glu Val Val Val His Lys Lys Met Arg Pro Thr Ile
2891          450          455          460
2892 Lys Asp His Trp Leu Lys His Pro Gly Leu Ala Gln Leu Cys Val Thr
2893 465          470          475          480
2894 Ile Glu Glu Cys Trp Asp His Asp Ala Glu Ala Arg Leu Ser Ala Gly
2895          485          490          495
2896 Cys Val Glu Glu Arg Val Ser Leu Ile Arg Arg Ser Val Asn Gly Thr
2897          500          505          510
2898 Thr Ser Asp Cys Leu Val Ser Leu Val Thr Ser Val Thr Asn Val Asp
E--> 2899
          515          520          525
2900 Leu Leu Pro Lys Glu Ser Ser Ile
E--> 2901          530          535
2901 (2) INFORMATION FOR SEQ ID NO: 37:
2902 (i) SEQUENCE CHARACTERISTICS:
2903 (A) LENGTH: 102 amino acids
2904 (B) TY7PE: amino acid
2905 (D) TOPOLOGY: linear
2907 (ii) MOLECULE TYPE: peptide
2909 (vi) ORIGINAL SOURCE:
3000 (A) ORGANISM: C. elegans
3002 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:
3004 Cys His Cys Ser Arg Glu Val Gly Cys Asn Ala Arg Thr Thr Gly Trp
E--> 3005
          5          10
3006 Val Pro Gly Ile Glu Phe Leu Asn Glu Thr Asp Arg Ser Phe Tyr Glu
E--> 3007          20          25          30
3008 Asn Thr Cys Tyr Thr Asp Gly Ser Cys Tyr Gln Ser Ala Arg Pro Ser
E--> 3009
          35          40          45
3010 Pro Glu Ile Ser His Phe Gly Cys Met Asp Glu Lys Ser Val Thr Asp
E--> 3011          50          55          60
3012 Glu Thr Glu Phe His Asp Thr Ala Ala Lys Val Cys Thr Asn Asn Thr
E--> 3013
          65          70          75
3014 Lys Asp Pro His Ala Thr Val Trp Ile Cys Cys Asp Lys Gly Asn Phe
E--> 3015
          85          90          100
E--> 3016 Cys
3022 (2) INFORMATION FOR SEQ ID NO: 38:
3023 (i) SEQUENCE CHARACTERISTICS:
3024 (A) LENGTH: 6 amino acids
3025 (B) TYPE: amino acid
3026 (D) TOPOLOGY: linear
3028 (ii) MOLECULE TYPE: peptide
3030 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

```

3032 Asp Leu Lys Pro Glu Asn

RAW SEQUENCE LISTING

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TIME: 10:28:32

Input Set : A:\lud 5539.1 sequence listing March 2001.ascii.txt

Output Set: N:\CRF4\03272003\I267963B.raw

```

E--> 3033                5
3038 (2) INFORMATION FOR SEQ ID NO: 39:
3039 (i) SEQUENCE CHARACTERISTICS:
3040 (A) LENGTH: 6 amino acids
3041 (B) TYPE: amino acid
3042 (D) TOPOLOGY: linear
3044 (ii) MOLECULE TYPE: peptide
3046 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:
3048 Asp Leu Ala Ala Arg Asn

E--> 3049                5
3051 (2) INFORMATION FOR SEQ ID NO: 40:
3052 (i) SEQUENCE CHARACTERISTICS:
3053 (A) LENGTH: 6 amino acids
3054 (B) TYPE: amino acid
3055 (D) TOPOLOGY: linear
3057 (ii) MOLECULE TYPE: peptide
3059 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:
3061 Asp Ile Lys Ser Lys Asn

E--> 3062                5
3065 (2) INFORMATION FOR SEQ ID NO: 41:
3066 (i) SEQUENCE CHARACTERISTICS:
3067 (A) LENGTH: 6 amino acids
3068 (B) TYPE: amino acid
3069 (D) TOPOLOGY: linear
3071 (ii) MOLECULE TYPE: peptide
3073 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:
3075 Asp Phe Lys Ser Lys Asn

E--> 3076                5
3079 (2) INFORMATION FOR SEQ ID NO: 42:
3080 (i) SEQUENCE CHARACTERISTICS:
3081 (A) LENGTH: 6 amino acids
3082 (B) TYPE: amino acid
3083 (D) TOPOLOGY: linear
3085 (ii) MOLECULE TYPE: peptide
3087 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:
3089 Asp Leu Lys Ser Ser Asn

E--> 3090                5
3093 (2) INFORMATION FOR SEQ ID NO: 43:
3094 (i) SEQUENCE CHARACTERISTICS:
3095 (A) LENGTH: 6 amino acids
3096 (B) TYPE: amino acid
3097 (D) TOPOLOGY: linear
3099 (ii) MOLECULE TYPE: peptide
3101 (ix) FEATURE:
3102 (D) OTHER INFORMATION: First Xaa is Thr or Ser;
3103 fourth Xaa is Tyr or Phe; Each other Xaa
3104 may be any amino acid
3106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:
W--> 3108 Gly Xaa Xaa Xaa Xaa Xaa

```

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Input Set : A:\lud 5539.1 sequence listing March 2001.ascii.txt

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E--> 3109 5
3112 (2) INFORMATION FOR SEQ ID NO: 44:
3113 (i) SEQUENCE CHARACTERISTICS:
3114 (A) LENGTH: 6 amino acids
3115 (B) TYPE: amino acid
3116 (D) TOPOLOGY: linear
3118 (ii) MOLECULE TYPE: peptide
3120 (ix) FEATURE:
3121 (D) OTHER INFORMATION: Fisrt Xaa is any amino acid;
3122 second Xaa is Ile or Val;
3123 third Xaa is Lys or Arg;
3124 fourth Xaa is Thr or Met.
3126 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:
W--> 3128 Xaa Pro Xaa Xaa Trp Xaa
E--> 3129 5
3132 (2) INFORMATION FOR SEQ ID NO: 45:
3133 (i) SEQUENCE CHARACTERISTICS:
3134 (A) LENGTH: 6 amino acids
3135 (B) TYPE: amino acid
3136 (D) TOPOLOGY: linear
3138 (ii) MOLECULE TYPE: peptide
3140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:
3142 Gly Thr Arg Arg Tyr Met
E--> 3143 5
3145 (2) INFORMATION FOR SEQ ID NO: 46:
3146 (i) SEQUENCE CHARACTERISTICS:
3147 (A) LENGTH: amino acids
3148 (B) TYPE: amino acid
3149 (D) TOPOLOGY: linear
3151 (ii) MOLECULE TYPE: peptide
3153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:
3155 Gly Thr Ala Arg Tyr Met
E--> 3156 5

VERIFICATION SUMMARY

DATE: 03/27/2003

PATENT APPLICATION: US/09/267,963B

TIME: 10:28:33

Input Set : A:\lud 5539.1 sequence listing March 2001.ascii.txt

Output Set: N:\CRF4\03272003\I267963B.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:88 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:335 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:608 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:896 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1153 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1409 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1655 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1915 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2170 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2416 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2434 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2452 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2470 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2488 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2506 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2524 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:2699 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:32
L:0 M:200 E: Mandatory Header Field missing, Seq 34, [(B) TYPE:] of (2)(i)
L:2899 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:35
M:332 Repeated in SeqNo=35
L:0 M:200 E: Mandatory Header Field missing, Seq 37, [(B) TYPE:] of (2)(i)
L:3005 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:37
M:332 Repeated in SeqNo=37
L:3016 M:203 E: No. of Seq. differs, LENGTH:Input:102 Found:97 SEQ:37
L:3033 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:38
L:3049 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39
L:3062 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:40
L:3076 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:41
L:3090 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:42
L:3108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
M:332 Repeated in SeqNo=43
L:3128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
M:332 Repeated in SeqNo=44
L:3143 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:45
L:3156 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:46
L:3156 M:203 E: No. of Seq. differs, LENGTH:Input:0 Found:6 SEQ:46

AU Hopkins W E; Westerhausen D R; Fujii S; Billadello J J; Sobel B E
 TI Mediators of induction of augmented expression of plasminogen activator
 inhibitor type-1 in Hep G2 cells by platelets.
 SO THROMBOSIS AND HAEMOSTASIS, (1991 Aug 1) 66 (2) 239-45.
 Journal code: VQ7. ISSN: 0340-6245.
 AN 92124428 MEDLINE
 JT THROMBOSIS AND HAEMOSTASIS
 JT Thromb Haemost
 LA English
 AB Plasminogen activator inhibitor type-1 (PAI-1) is a physiologic modulator
 of the fibrinolytic system. We have shown previously that PAI-1
 biosynthesis in cultured cells depends on several factors in serum.
 Because platelets are richly endowed with specific growth factors and
 because the release reaction is an integral part of thrombosis,
 the present study was performed to determine whether platelets augment
 PAI-1 production and if so, to define mediators responsible. Hep G2 cells
 were used to determine whether platelet lysates increased PAI-1 synthesis
 in a dose and time-dependent manner. In cells labeled metabolically with
 35S-methionine for 6 h, an increase in labeled PAI-1 was elicited
 indicative of de novo synthesis as well as increased secretion of PAI-1
 mediated by platelet lysates. Steady state levels of both the 3.2 and 2.2
 kb forms of PAI-1 mRNA increased after 2 h and peaked in 3-5 h in a
 dose-dependent fashion as well. Incubation of Hep G2 cells with collagen
 activated platelets resulted in a similar induction of PAI-1 mRNA. The
 increase in PAI-1 mRNA occurred with exposure of the cells to platelet
 lysates for intervals as brief as 15 min and was not inhibited by
 cycloheximide indicating its independence of new protein synthesis. In
 order to identify the factors in platelets responsible for the induction
 of PAI-1 synthesis in the Hep G2 cell model system, neutralizing
 antibodies were used to inhibit specific platelet associated
 growth factors. Antibodies to transforming growth
 factor-beta (TGF-beta) and to the
 epidermal growth factor (EGF)/transforming growth factor alpha (TGF-alpha)
 receptor inhibited the platelet lysate-mediated increase in PAI-1 protein
 by 77%. (ABSTRACT TRUNCATED AT 250 WORDS)

RECEIVED

APR 01 2003

TECH CENTER 1600/2900

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

09/267,963B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☒ Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug," A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☐ Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.